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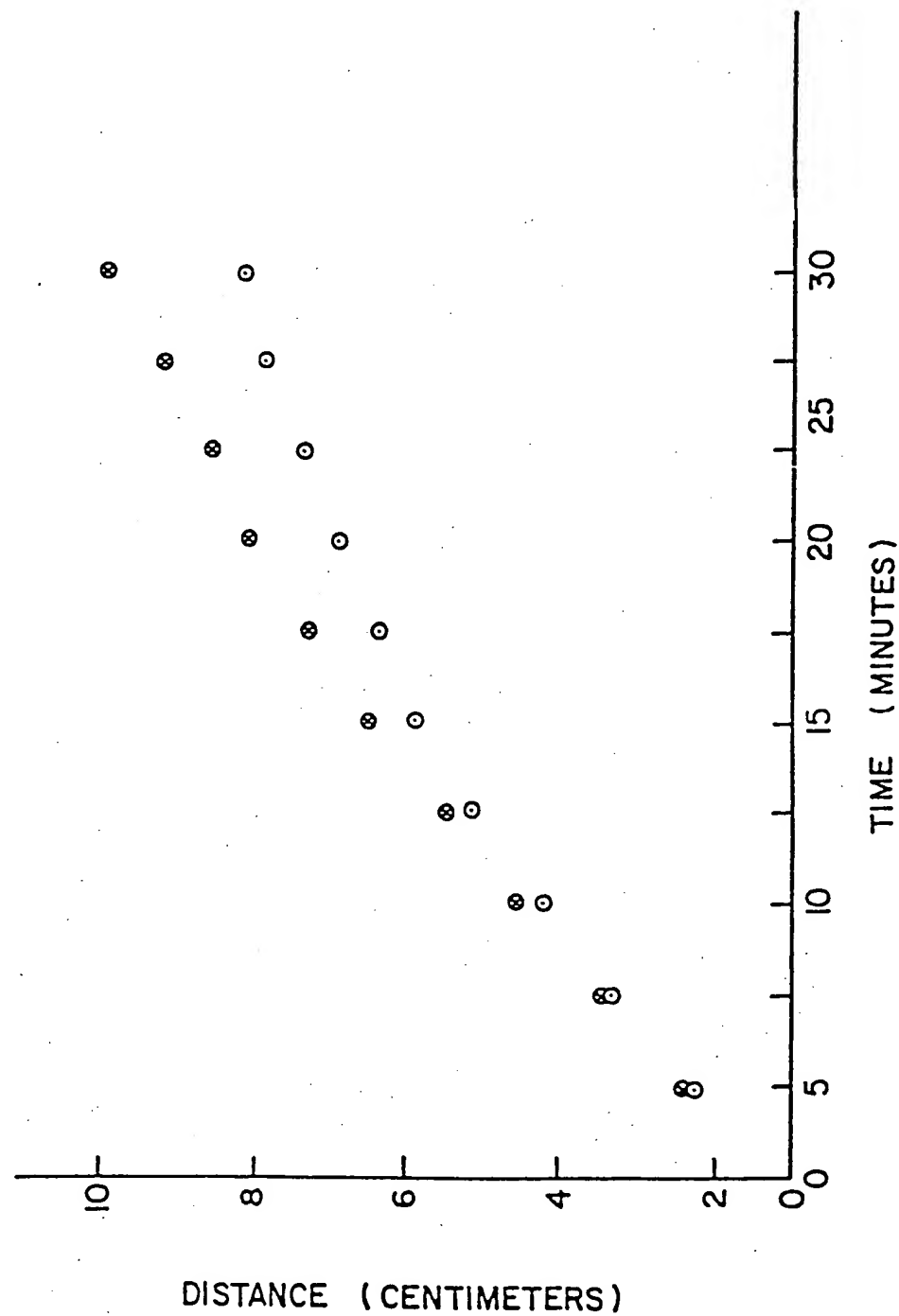


FIG. 1

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FIG. 2

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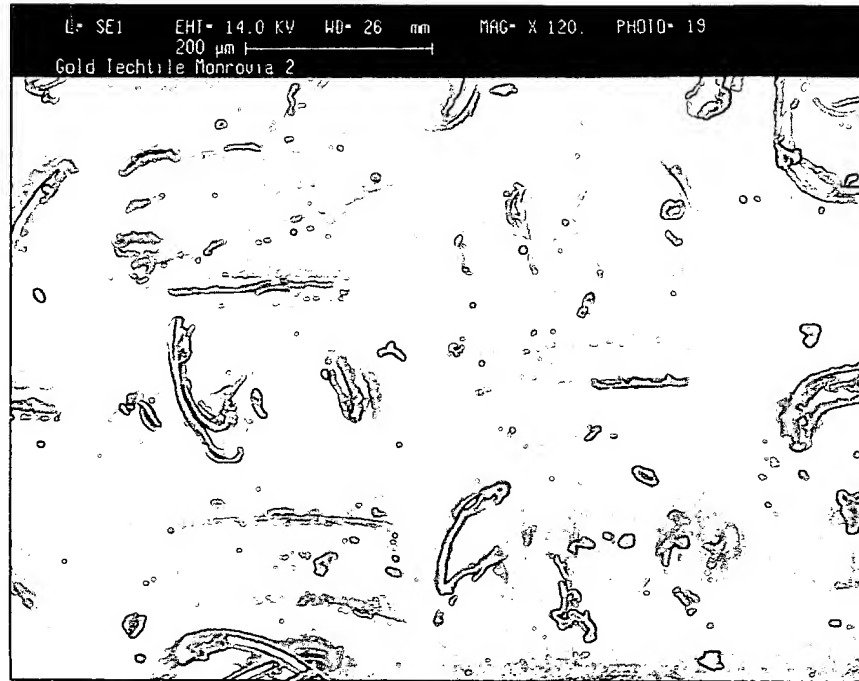


FIG. 3a

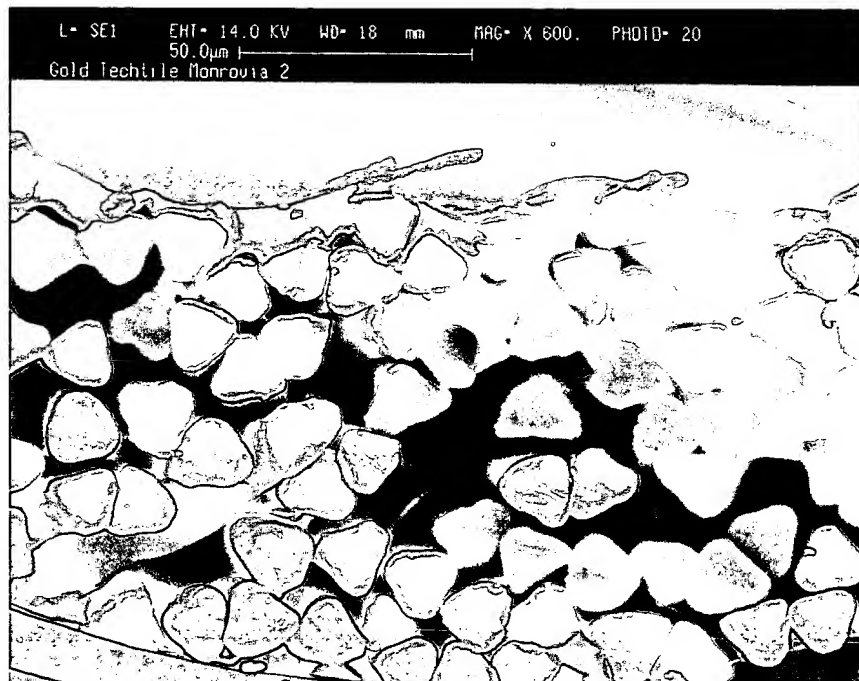


FIG. 3b

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FIG. 3c

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FIG. 4a

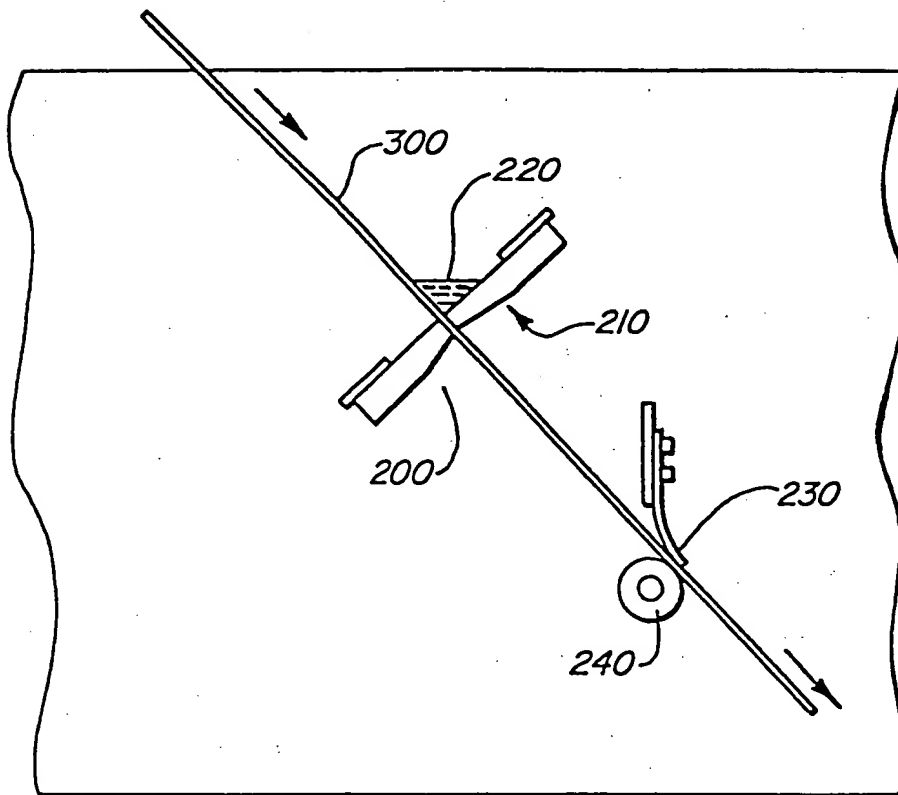
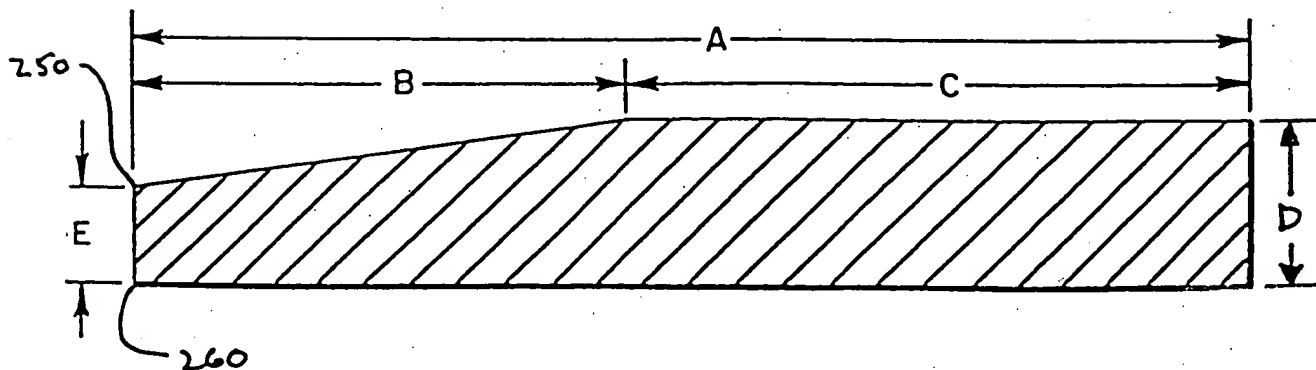


FIG. 4b



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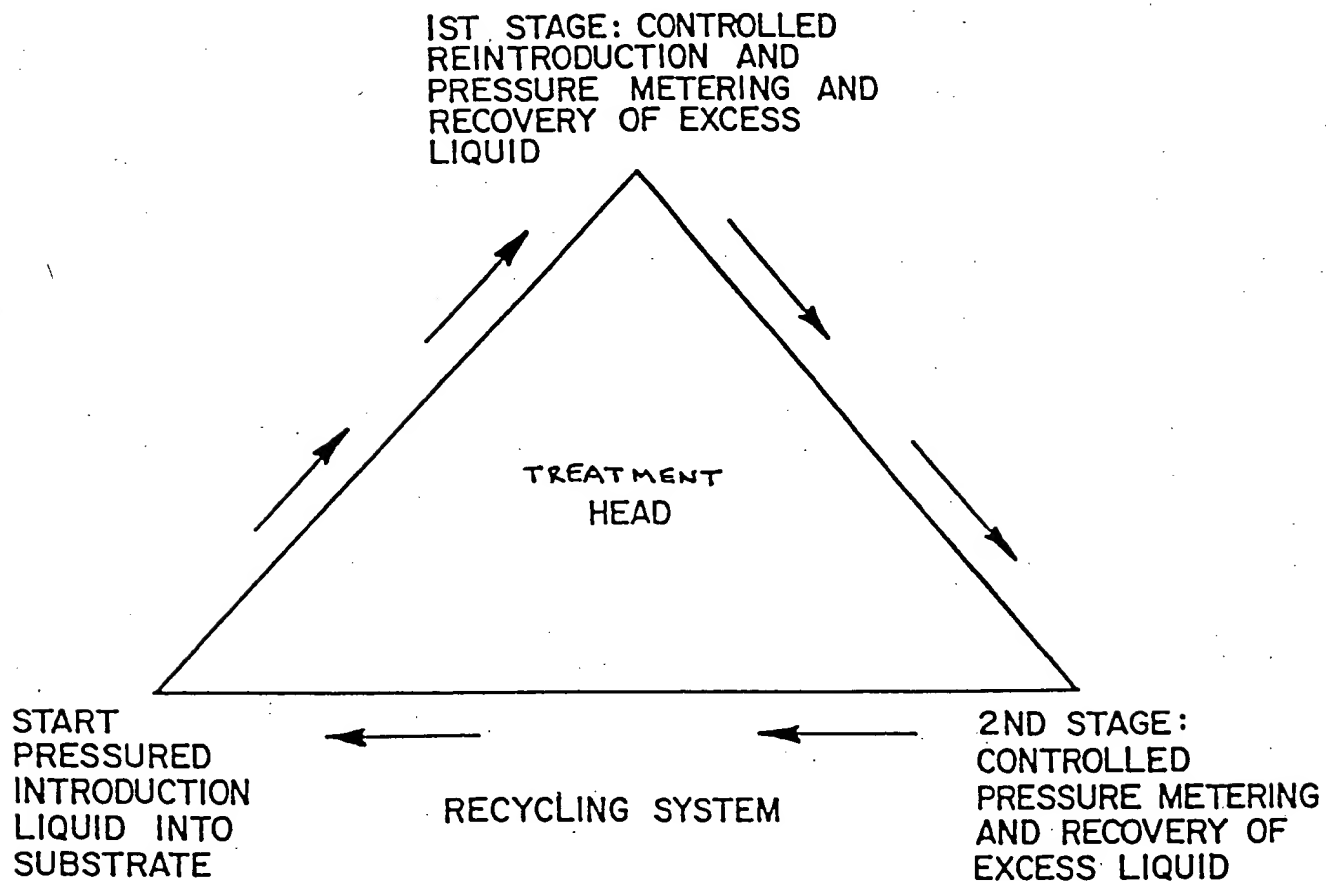
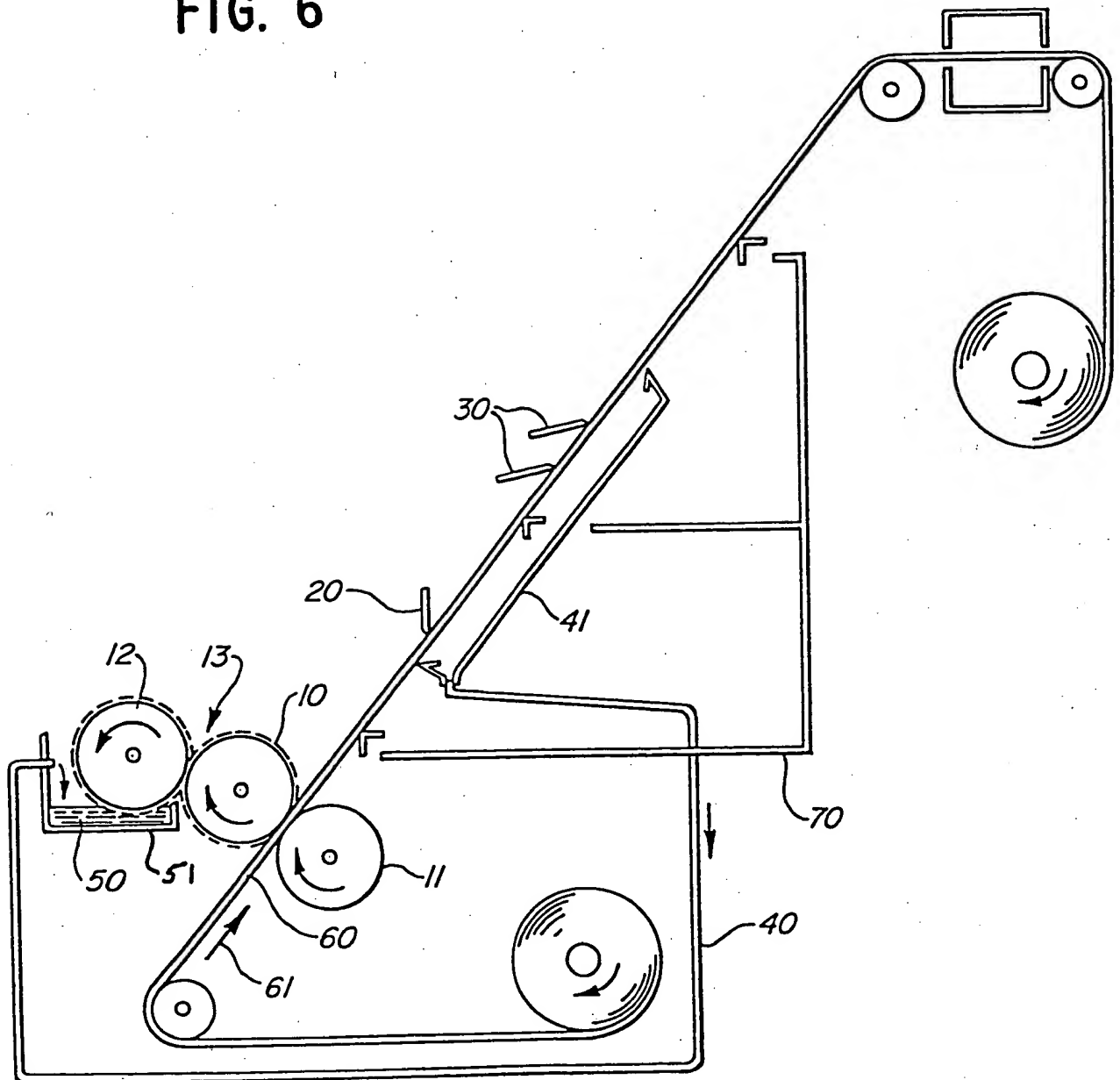


FIG. 5

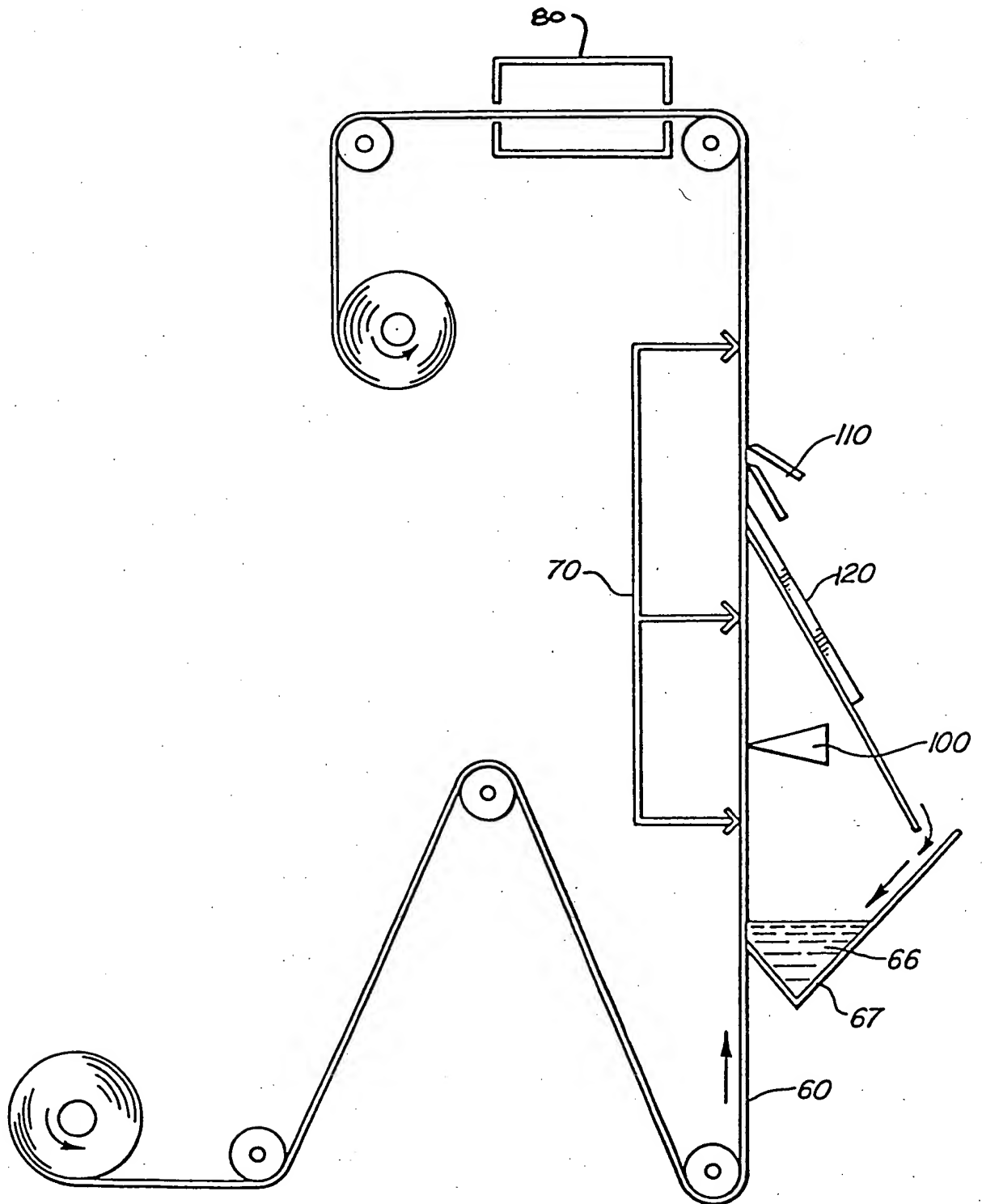
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FIG. 6



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FIG. 7





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FIG. 8a PRIOR ART

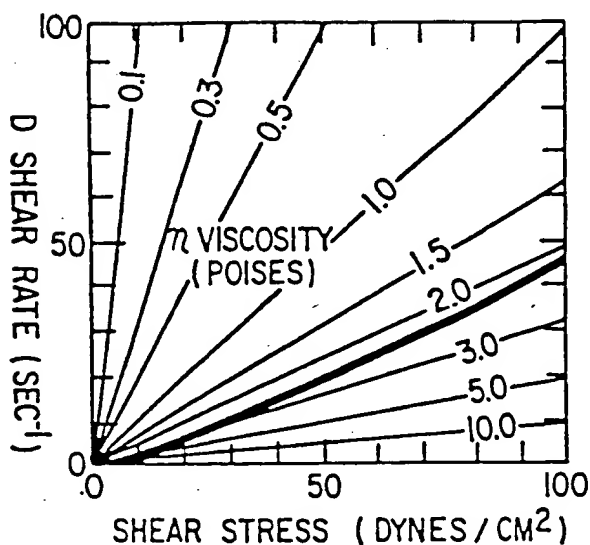


FIG. 8b PRIOR ART

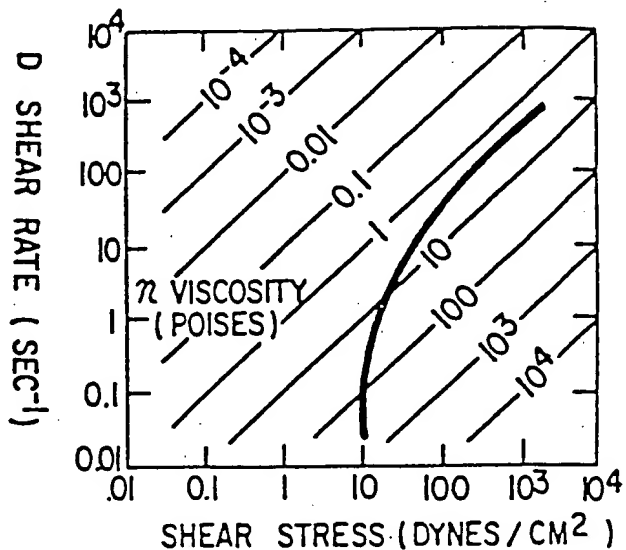


FIG. 8c PRIOR ART

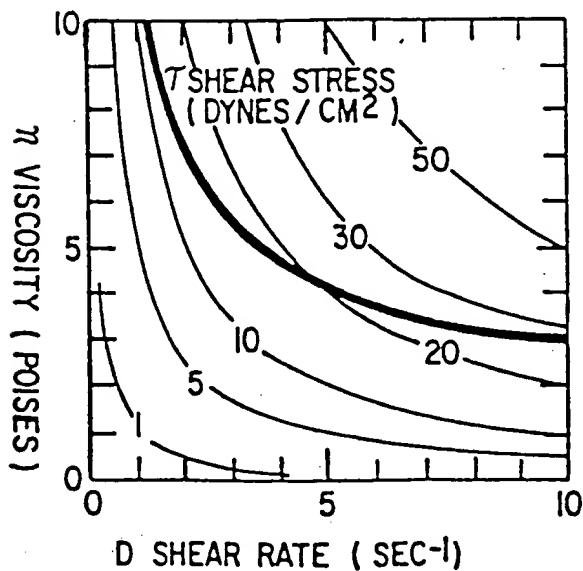
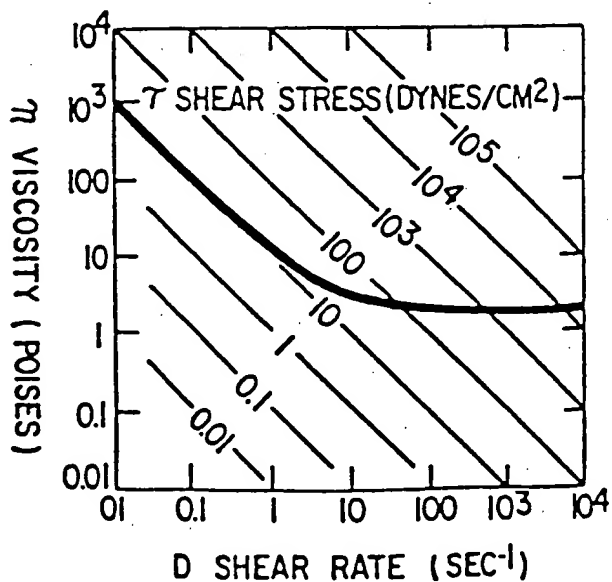


FIG. 8d PRIOR ART



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FIG. 9 PRIOR ART

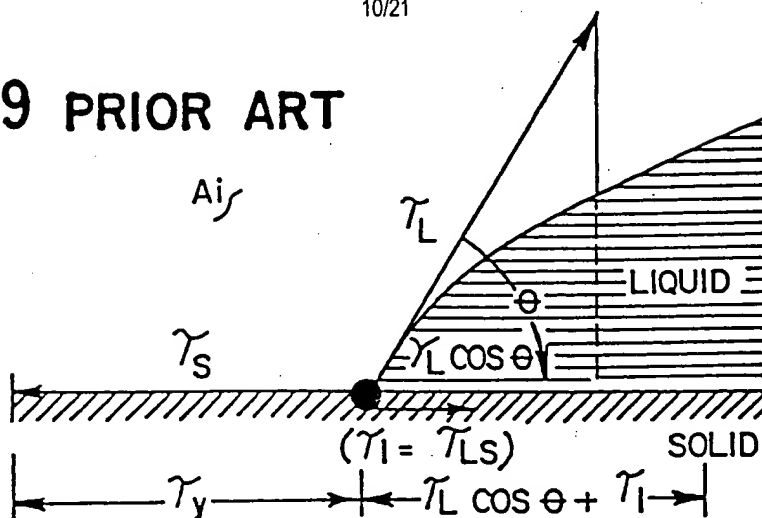
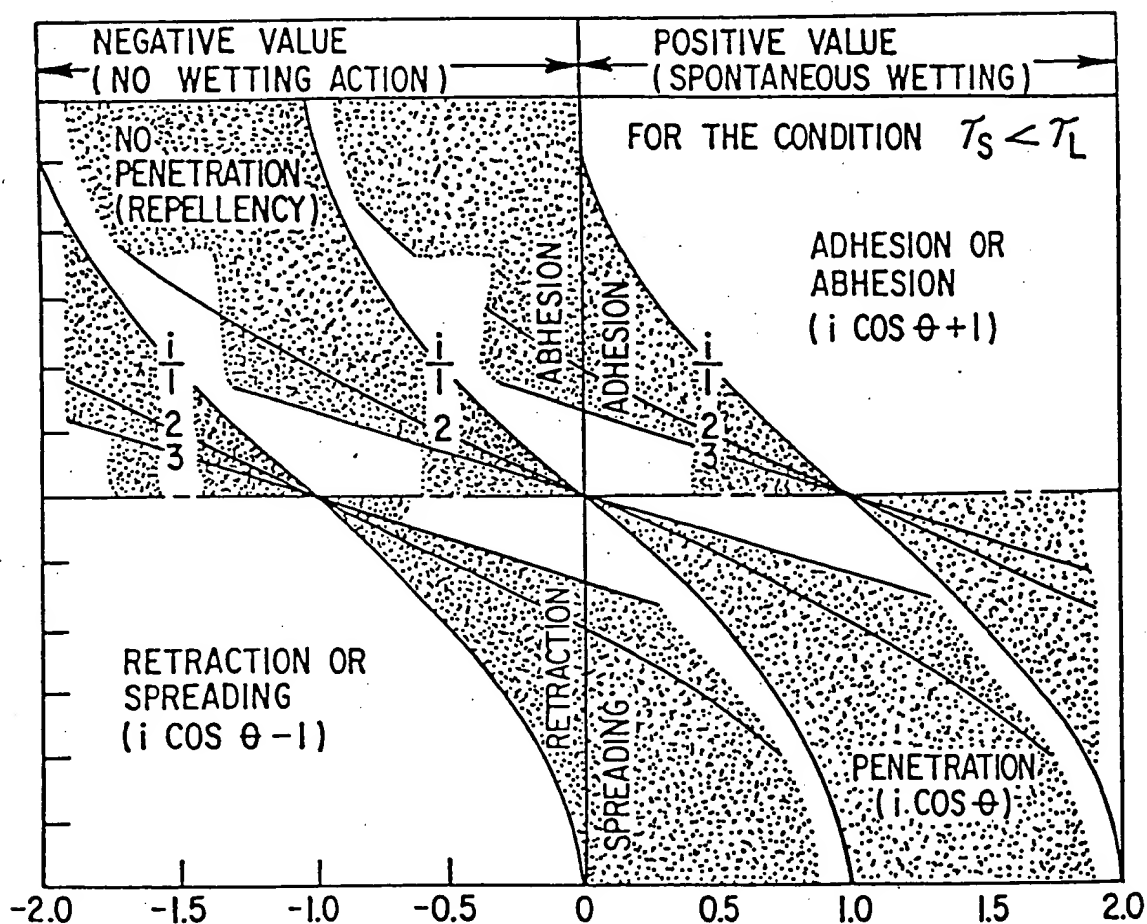


FIG. 10 PRIOR ART



FUNCTION OF  $\theta$  AND  $i$  AS INDICATED ON DIAGRAM FOR  
 ADHESION, PENETRATION, AND SPREADING, RESPECTIVELY

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FIG. IIa PRIOR ART

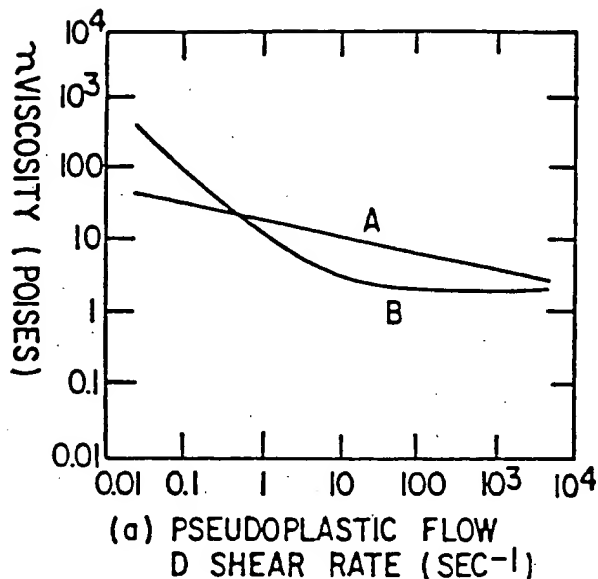


FIG. IIb PRIOR ART

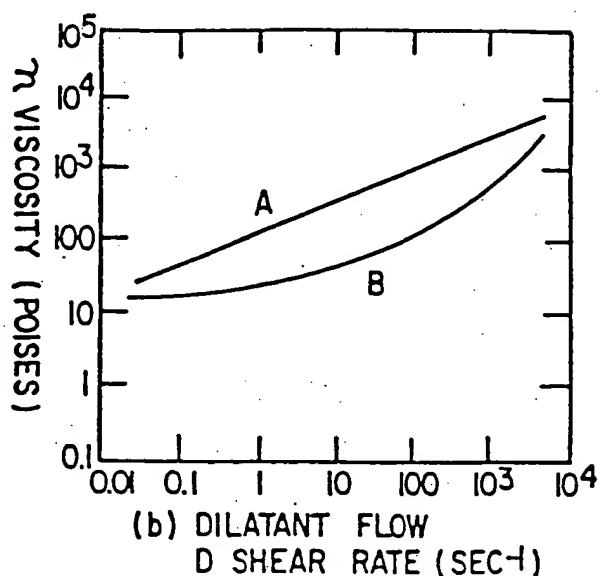


FIG. IIc PRIOR ART

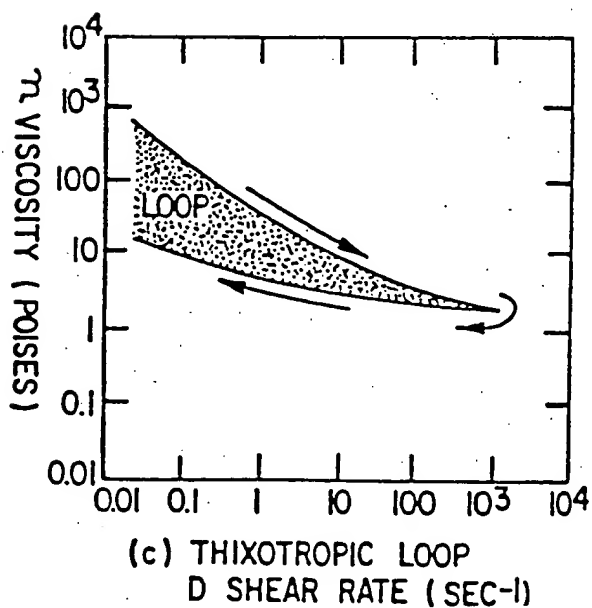
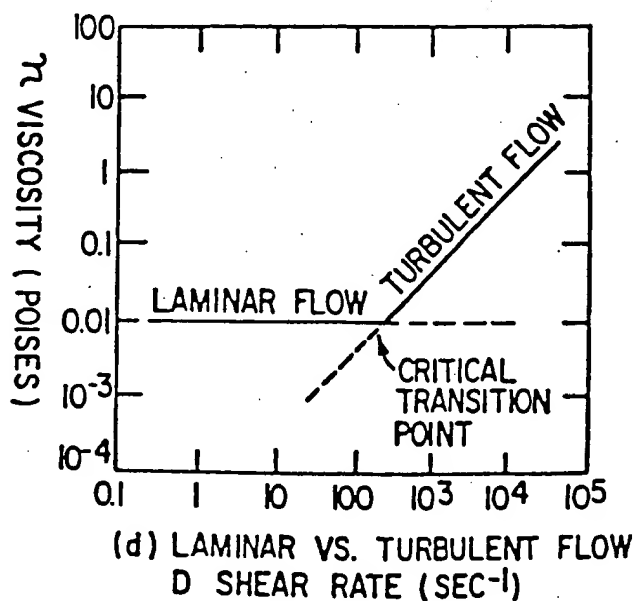
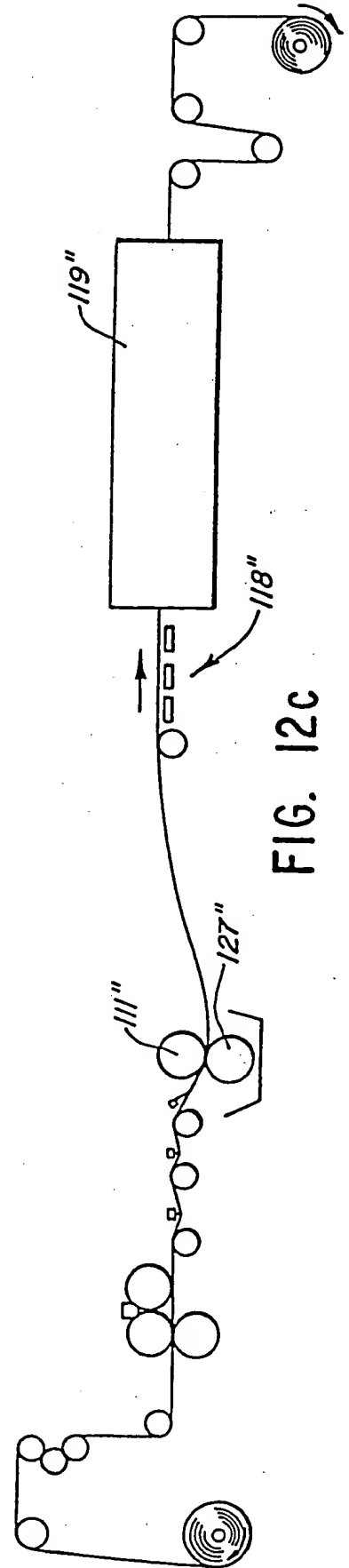
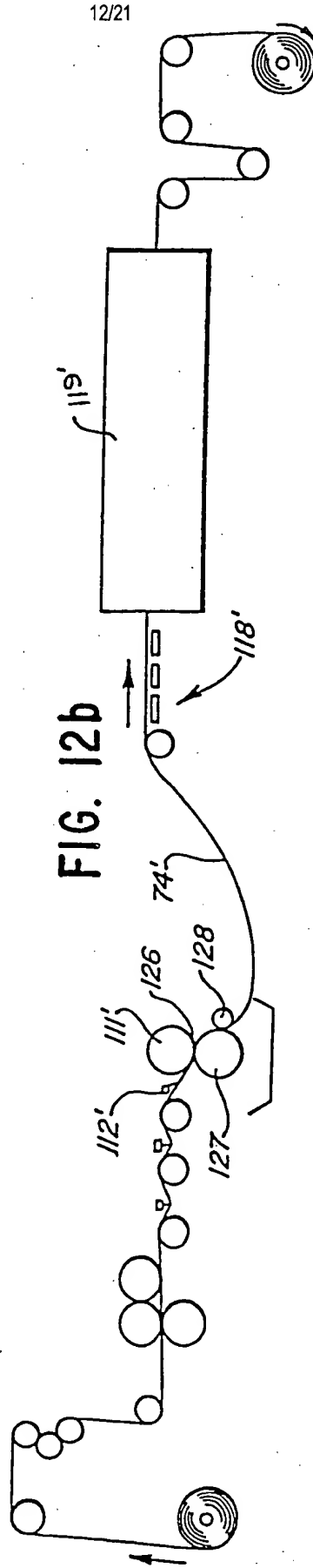
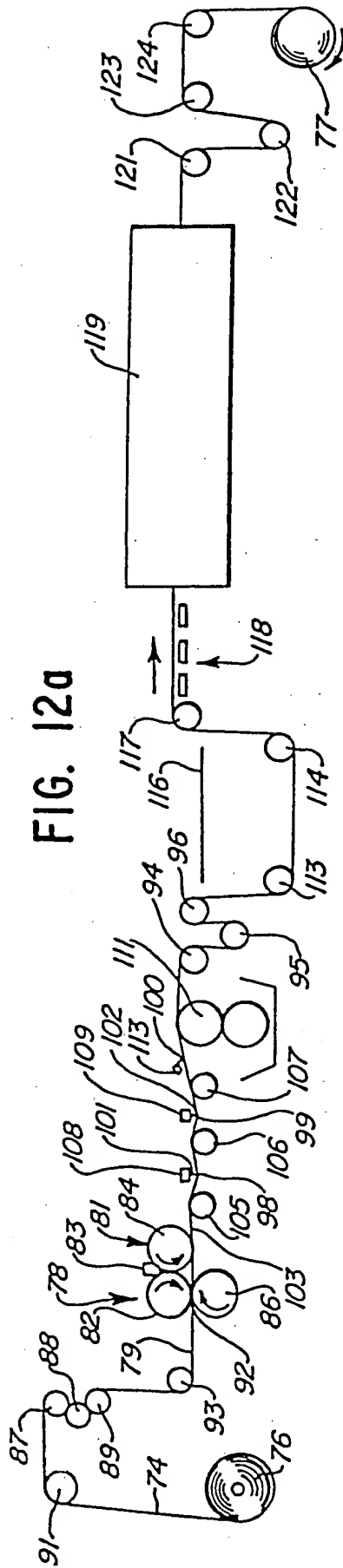


FIG. IIId PRIOR ART





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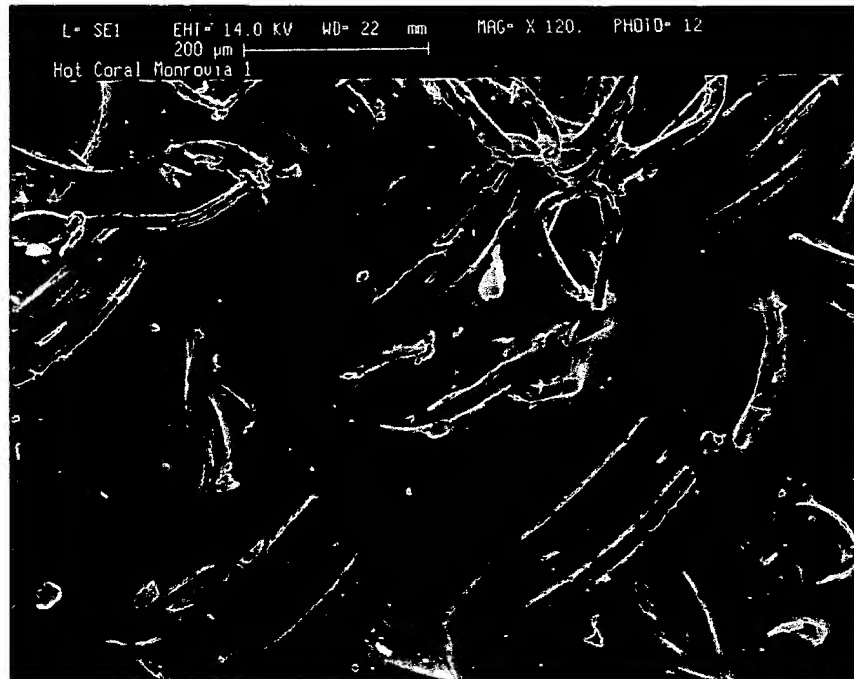


FIG. 13a

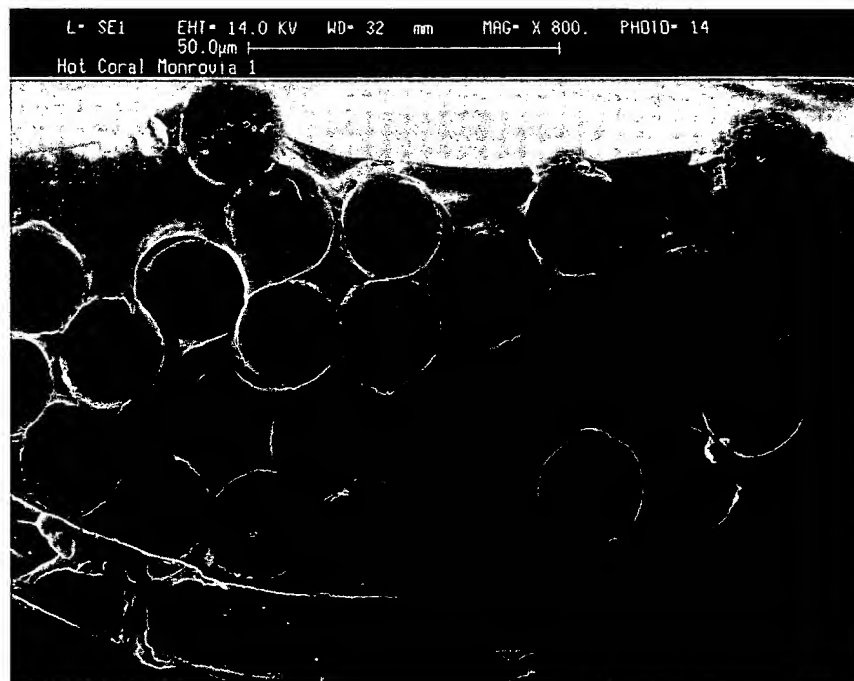


FIG. 13b

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FIG. 13c

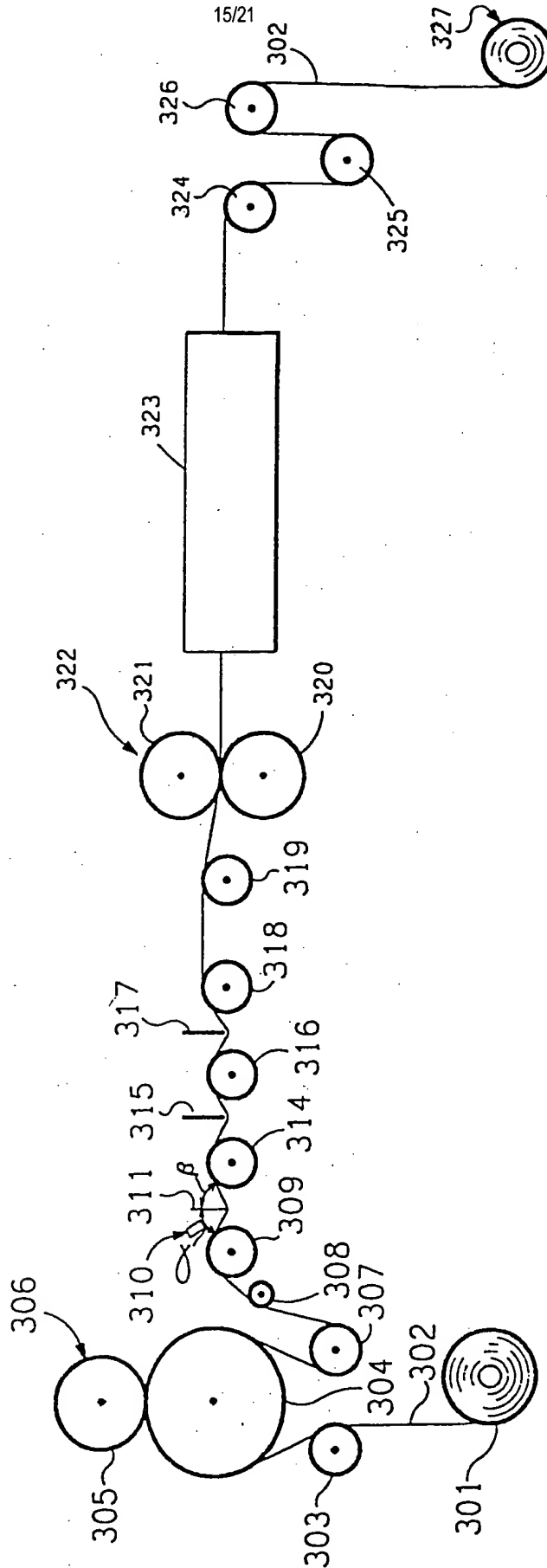


FIG. 14

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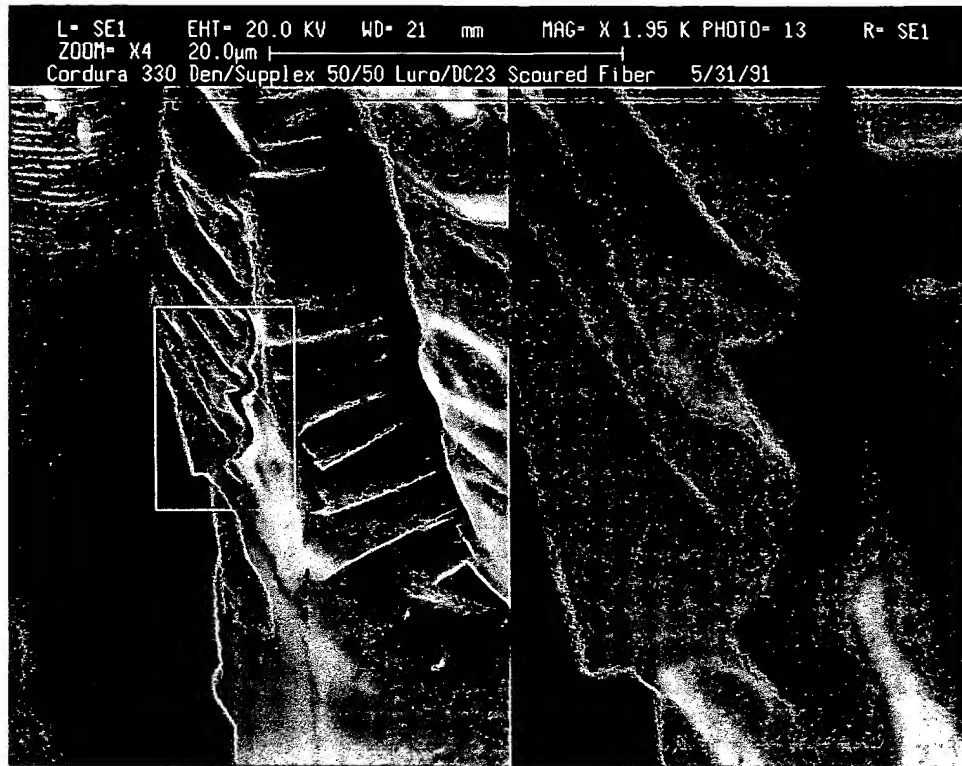


FIG. 15a



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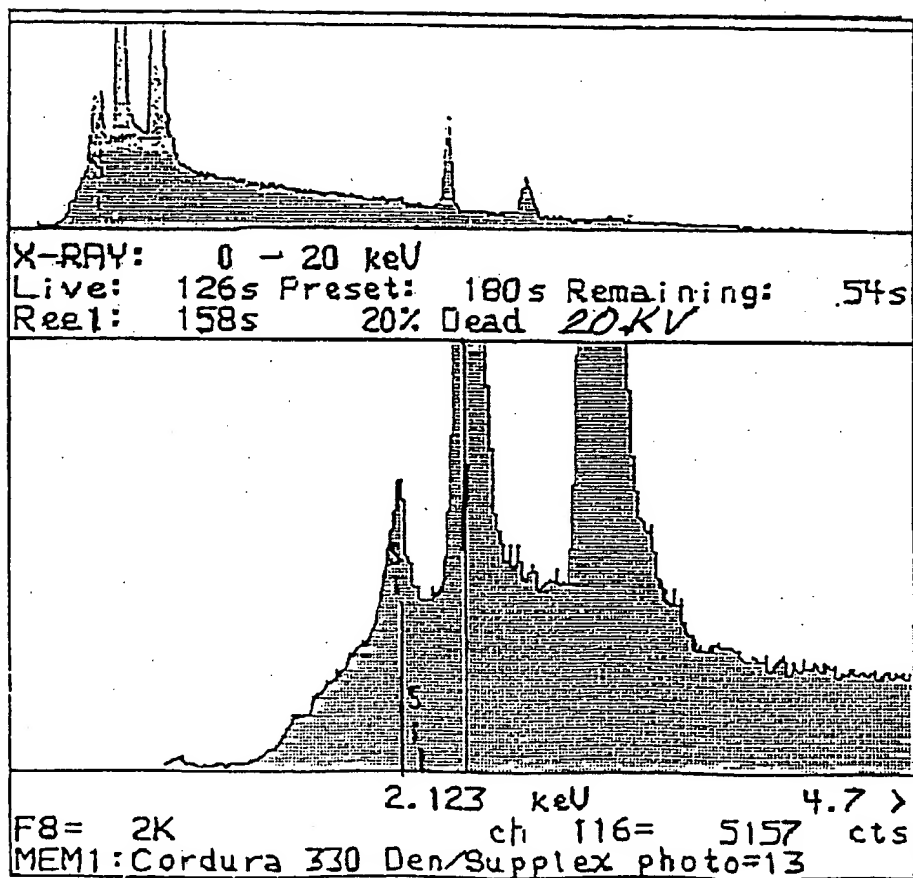


FIG. 15b



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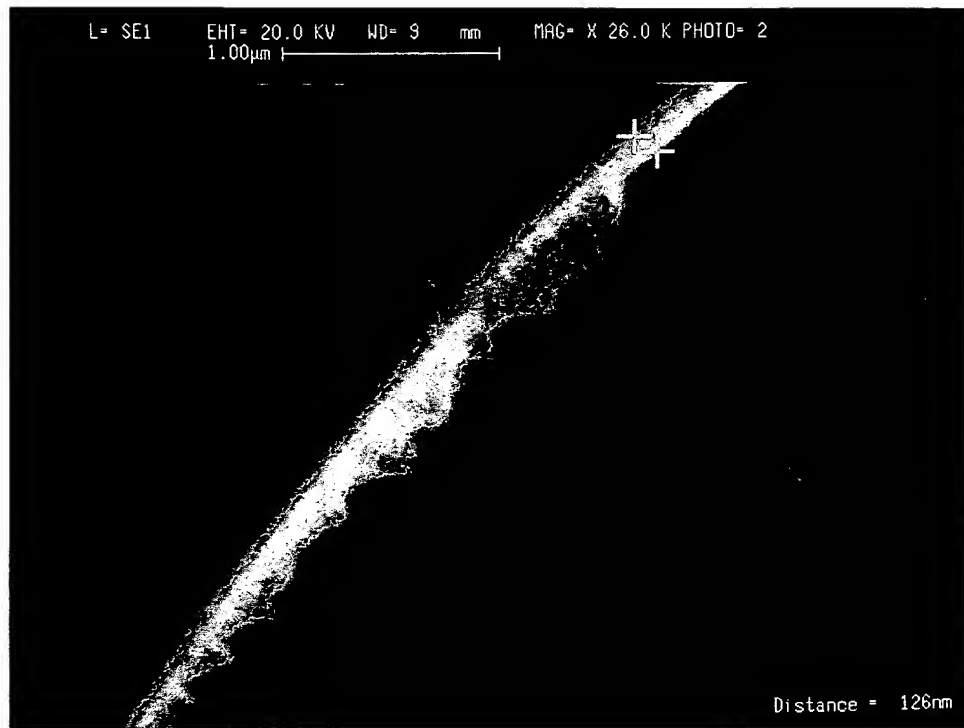


FIG. 15c

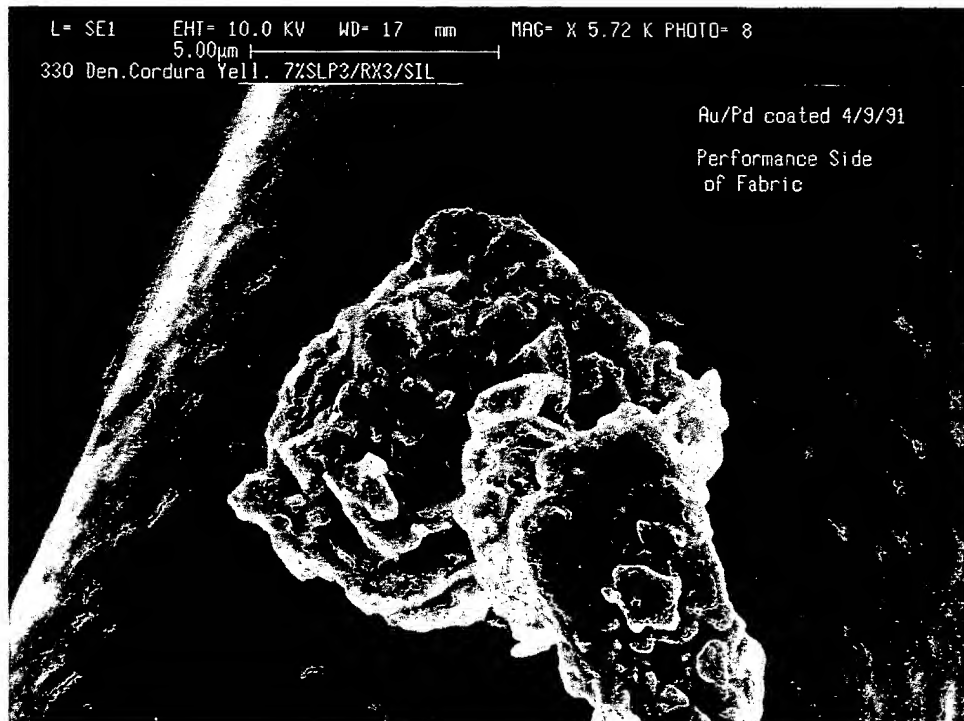


FIG. 15d

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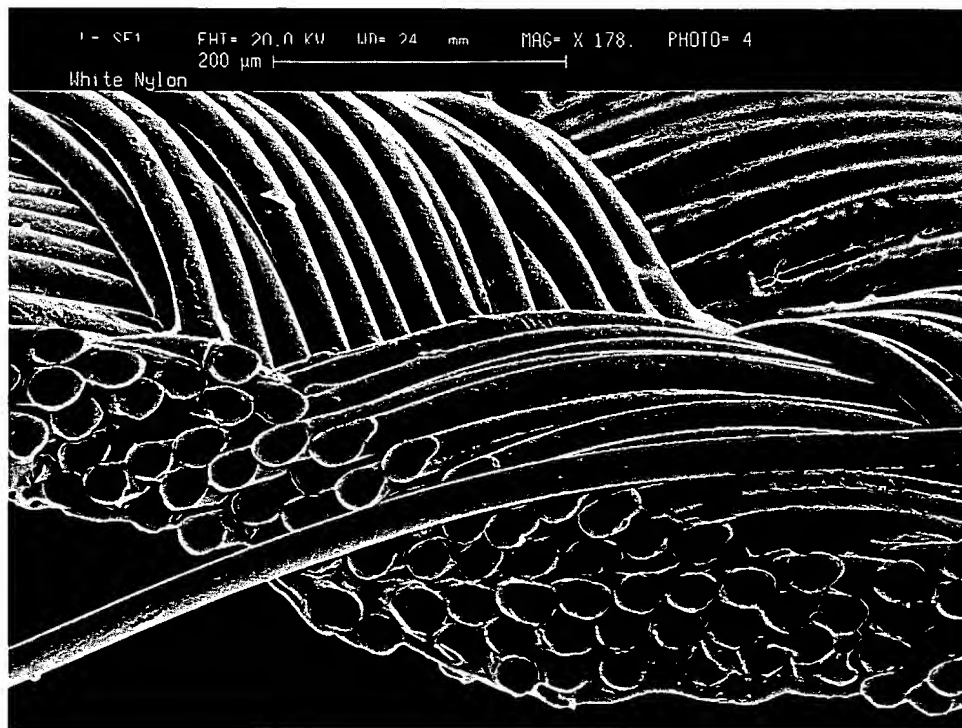


FIG. 15e

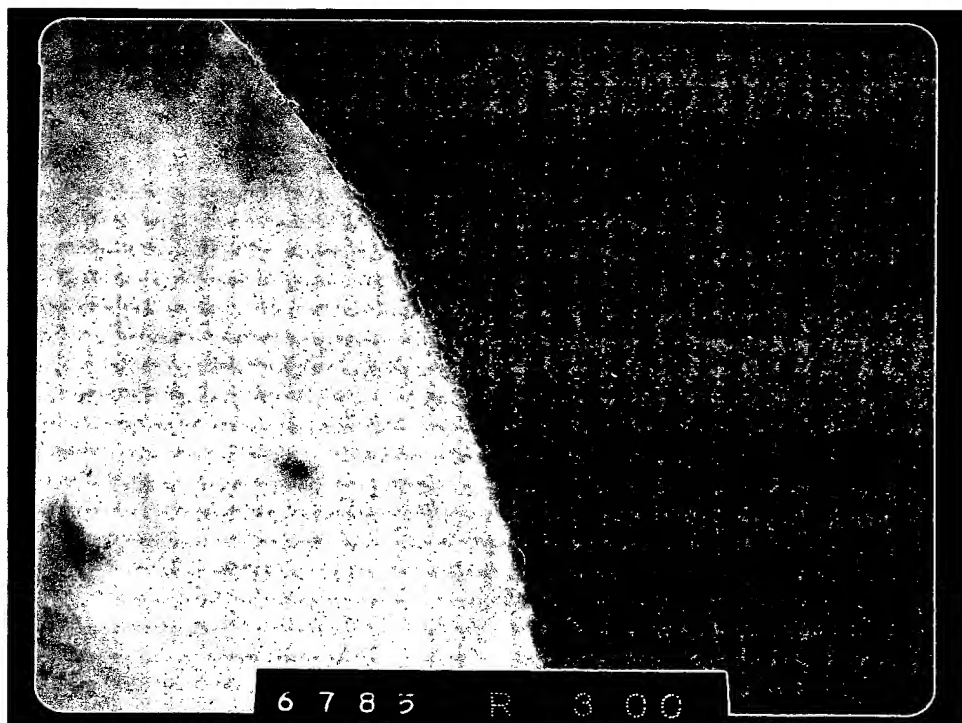


FIG. 15f

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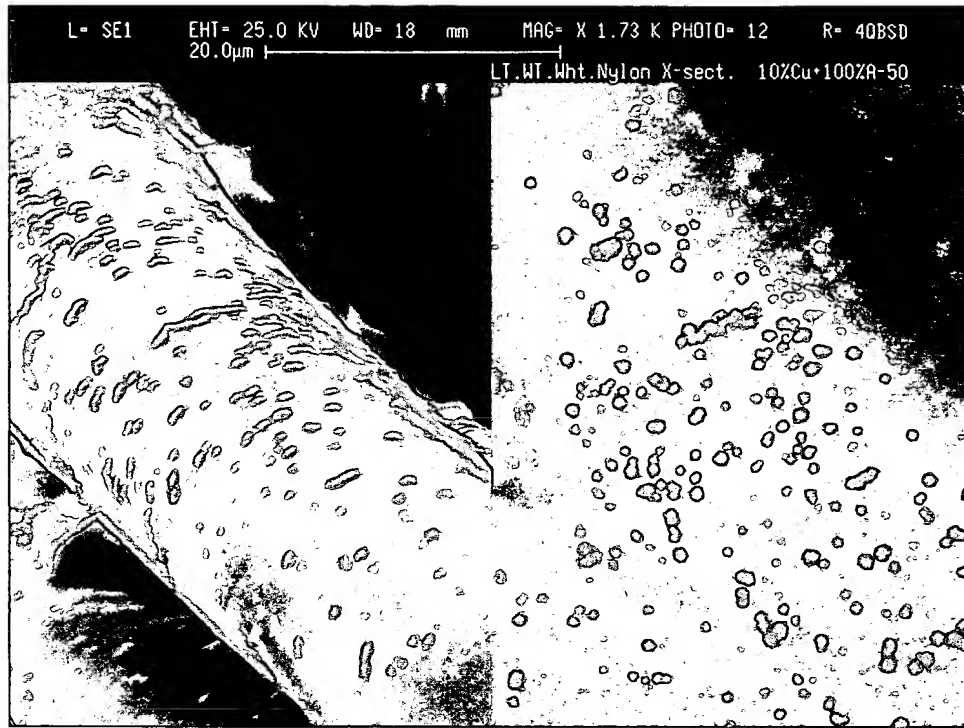


FIG. 15g



FIG. 15h

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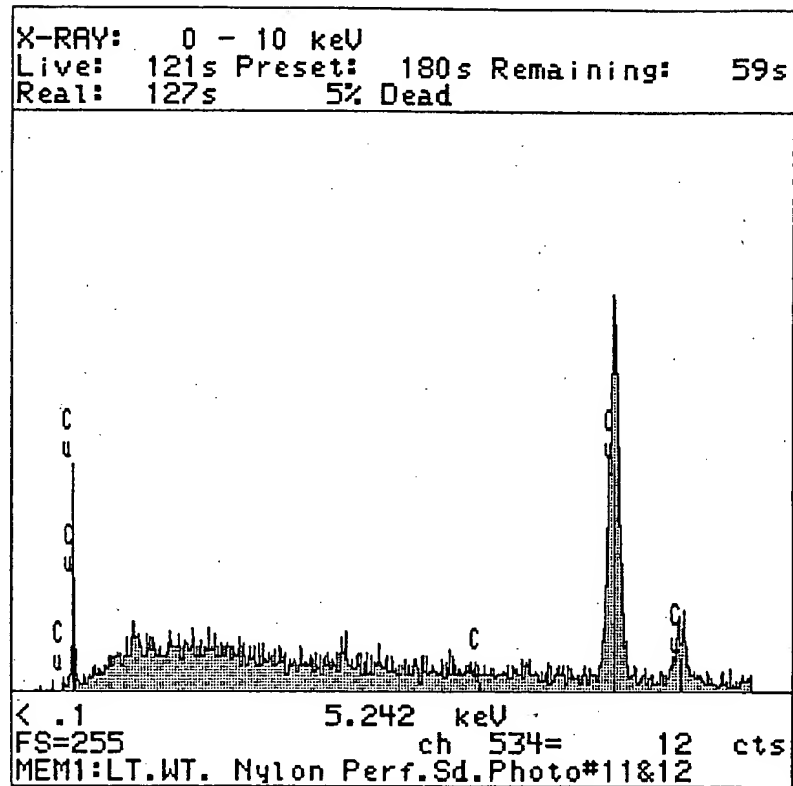


FIG. 15i